L10 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1995:664959 CAPLUS
DN 123:59863
ED Entered STN: 12 Jul 1995
TI Polyimide-fiber planar multibarrel hollow filtering elements and manufacture
IN Ootaka, Hitoshi; Hajama, Takeshi; Taniguchi, Kyomine
PA Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM B01D039-16
ICS B01D039-00; B01D046-02
CC 47-2 (Apparatus and Plant Equipment)
Section cross-reference(s): 38
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 07000730	A2	19950106	JP 1993-170974	19930618 <--
PRAI JP 1993-170974		19930618		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 07000730	ICM	B01D039-16
	ICS	B01D039-00; B01D046-02
	IPCI	B01D0039-16 [ICM,6]; B01D0039-00 [ICS,6]; B01D0046-02 [ICS,6] <--

AB The title filtering elements are made from polyimide fibers, and have heat-resistant temperature ≥280°. The filtering elements are integrated self-supportable hollow articles having plural 1 side-opened tube-like hollow cells arranged in a plane. The filtering elements are manufactured by oppositely matching the indented portions of 2 corrugated filter sheets to form the tube-like hollow cells, and hot pressing by a pair of molds having the same corrugated shape at 250-430°and 0.03-2.0 kg/cm2. Large filtering area per each filtering element is obtained.
ST planar multibarrel hollow filtering element; polyimide fiber filtering element manuf
IT Filters and Filtering materials
(polyimide-fiber planar multibarrel hollow filtering elements and manufacture)
IT Synthetic fibers, polymeric
RL: TEM (Technical or engineered material use); USES (Uses)
(aromatic polyimides, polyimide-fiber planar multibarrel hollow filtering elements and manufacture)
IT 53694-16-9 161578-10-5
RL: TEM (Technical or engineered material use); USES (Uses)
(fibers; polyimide-fiber planar multibarrel hollow filtering elements and manufacture)
RN 53694-16-9
RN 161578-10-5

L10 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1990:516610 CAPLUS
DN 113:116610
ED Entered STN: 29 Sep 1990
TI Heat-resistant phenolic resin compositions for laminates
IN Suzuki, Tetsuaki
PA Toshiba Chemical Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DT Patent

LA Japanese
IC ICM C08L061-14
ICS B32B027-42
CC 37-6 (Plastics Manufacture and Processing)
Section cross-reference(s): 38
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02135258	A2	19900524	JP 1988-289661	19881116 <--
	JP 07000730	B4	19950111		
PRAI	JP 1988-289661		19881116		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 02135258	ICM	C08L061-14
	ICS	B32B027-42
	IPCI	C08L0061-14 [ICM,5]; B32B0027-42 [ICS,5] <--

AB The title compns. with good low temperature punching properties contain benzoguanamine (I)-modified phenolic resins, phosphates, and phthalates. Thus, I 187, PhOH 113, and 37% formalin 349 g were stirred in the presence of EtNH2 at 90° for 4 h to give a modified phenolic resin, 65 parts of which was mixed with cresyl di-Ph phosphate 25, dioctyl phthalate 5, and tetrabromobisphenol A 5 parts to give a composition Then, several pieces of kraft paper were impregnated with the composition at 50% resin impregnation to give processed paper, 8 pieces of which were laminated and bonded with a 35-μm Cu foil to give a 1.6-mm Cu-covered laminate, which showed good punching properties at 20°, UL-94 inflammability V-0, and insulation resistance 2.1 + 108 Ω.
ST benzoguanamine modified phenolic resin compn; punching property phenolic resin compn; laminate benzoguanamine modified phenolic resin; phosphate phenolic resin compn; phthalate phenolic resin compn; heat resistant modified phenolic resin; fire resistant modified phenolic resin
IT Phenolic resins, uses and miscellaneous
RL: USES (Uses)
(aminoplast-, containing benzoguanamine, compns., containing phosphates and phthalates, for laminates, heat- and fire-resistant, with good low temperature punching properties)
IT Aminoplasts
RL: USES (Uses)
(phenolic, containing benzoguanamine, compns., containing phosphates and phthalates, for laminates, heat- and fire-resistant, with good low temperature punching properties)
IT 26444-49-5, Cresyl diphenyl phosphate
RL: USES (Uses)
(benzoguanamine-modified phenolic resin compns. containing, for laminates, heat- and fire-resistant, with good low temperature punching quality)
IT 28472-14-2
RL: USES (Uses)
(compns., containing phosphates and phthalates, for laminates, heat- and fire-resistant, with good low temperature punching properties)
IT 117-81-7
RL: USES (Uses)
(modified phenolic resin compns. containing, for laminates, heat- and fire-resistant, with good low temperature punching quality)
RN 26444-49-5
RN 28472-14-2
RN 117-81-7

L10 ANSWER 3 OF 4 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN
AN 1995-077268 [11] WPIX
DNC C1995-034374
TI Multiple hollow filter elements for treatment of dusty incinerator gas - consist of multiple long tubular hollow cells open at one end and made of heat-resistant polyimide fibres.

DC A88 J01
PA (TANI-I) TANIGUCHI K
CYC 1
PI JP 07000730 A 19950106 (199511)* 8 B01D039-16 <--
ADT JP 07000730 A JP 1993-170974 19930618
PRAI JP 1993-170974 19930618
IC ICM B01D039-16
ICS B01D046-02
AB JP 07000730 A UPAB: 19950322
Multiple hollow filter elements arranged on a plane are characterised in that they consist of multiple long tubular hollow cells which are open at one end, made of heat-resisting polyimide fibres, thermally resistant at 280 deg. C or higher, and integrated into a self-standing rigid structure arranged on a plane.

Also claimed is the preparation of the above-claimed multiple hollow filter elements, in which a sheet of heat-resisting polyimide fibre felt is placed on top of another, the two sheets are bonded together longitudinally so that they form multiple long tubular cells which are open at one end, closed at the other end, and arranged into a planar structure, metallic tubular supports with a desired cross-sectional shape are inserted into the cells from the open ends to support the cells, the felt sheets are held between a pair of top and bottom metallic fixtures with a concave contacting shape which fits the convex shape of the felt sheets formed by the inserted metallic tubular supports, and the felt sheets and metallic fixtures are formed into a product under pressure and heat.

USE/ADVANTAGE - The multiple hollow filter elements arranged on a plane can be used to collect dust and other particulates from exhaust gas emitted from incinerators. Since the filter elements are self-standing, no retainers are necessary. The filtration area per element is large.
Dwg.1/14
FS CPI
FA AB; GI
MC CPI: A05-J01B; A11-C01A; A12-S05G; A12-W11A; J01-H

L10 ANSWER 4 OF 4 JAPIO (C) 2005 JPO on STN
AN 1995-000730 JAPIO
TI PLANAR ARRAY MULTIPLE HOLLOW BODY FILTER ELEMENT AND PRODUCTION THEREOF
IN OTAKA HITOSHI; HAJIYAMA TAKESHI; TANIGUCHI KIYOMINE
PA TANIGUCHI KIYOMINE
PI **JP 07000730** A 19950106 Heisei
AI JP 1993-170974 (JP05170974 Heisei) 19930618
PRAI JP 1993-170974 19930618
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1995
IC ICM B01D039-16
ICS B01D039-00; B01D046-02
AB PURPOSE: To provide a filter element dispensing with a retainer, being an independent type, wide in the filtration area of one element and capable of easily producing a uniform shaped product.
CONSTITUTION: A planar array multiple hollow body filter element 1 is composed of plural vertically long and one side opened tubular type hollow body cells made of high heat resistant polyimide fiber, having >=280°C heat resistant temperature and having a rigid horizontally single line planar array structure in one body so as to be independent and the hollow body filter element is produced by using a felt sheet made of the polyimide fiber as a raw material and air permeable molding. The filter element provided with a can body mounting member is preferable.

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